



EAN code  
SA3-04M: 8595188132381

## Technical parameters

## SA3-04M

### Outputs

Output:	4x changeover 16 A/AC1
Switching voltage:	250 V AC, 24 V DC
Switching output:	4000 VA/AC1, 384 W/DC
Surge current:	30 A; max. 4 s. at 10% duty cycle
Output relays separated from all internal circuits:	reinforced Insulation (Cat. II surges by EN 60664-1)
Isolation between relay outputs RE1-3 and RE4:	reinforced Insulation (Cat. II surges by EN 60664-1)
Isolation between relay outputs RE1-3:	basic insulated. (Cat. II surges by EN 60664-1)
Isolates. voltage open relay contact:	1 kV
Min. switched current:	100 mA
Switching frequency /no load:	1200 min <sup>-1</sup>
Switching frequency/rated load:	6 min <sup>-1</sup>
Mechanical life:	3x 10 <sup>7</sup>
Electrical life AC1:	0.7x 10 <sup>5</sup>
Output indication:	4x yellow LED

### Communication

Installation BUS:	BUS
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### Power supply

Supply voltage / tolerance:	27 V DC, -20 / +10 %
Dissipated power:	max. 4 W
Rated current:	70 mA (at 27V DC), from BUS
Status indication unit:	green LED RUN

### Connection

Terminal:	max. 2.5 mm <sup>2</sup> /1.5 mm <sup>2</sup> with sleeve
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### Operating conditions

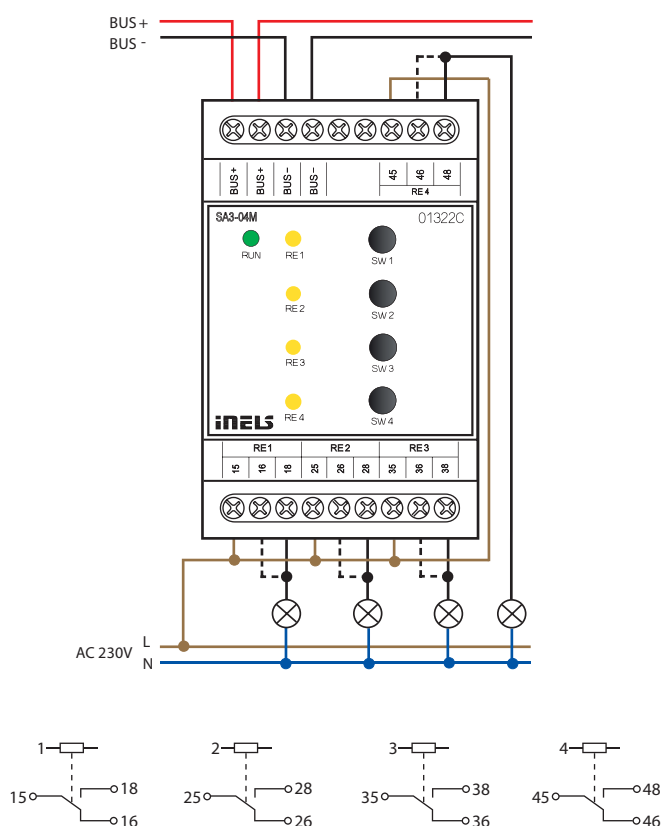
Air humidity:	max. 80 %
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20 device, IP40 mounting in the switchboard
Overvoltage category:	II.
Pollution degree:	2
Operation position:	any
Installation:	switchboard on DIN rail EN 60715
Design:	3-MODULE

### Dimensions and weight

Dimensions:	90 x 52 x 65 mm
Weight:	164 g

- SA3-04M is a switching actuator containing 4 independent relays with changeover potentialless contacts.
- Maximum load per contact is 16 A/4000 VA/AC1.
- Each of the four output contacts are individually controllable and addressable.
- All four relays are individually decorated input terminals, and therefore can switch various independent potentials.
- The actuator is designed for switching to four various appliances and loads relay output (potential free contact).
- Thanks to changeover contacts, it can be used to control up to two drives 230 V power (such as blinds, shutters or awnings) with appropriate bridging, the contacts can secure hardware blocking the possibility of simultaneous switching of the phase on both outputs, see example of connection.
- LEDs on the front panel signal the status of each output.
- Contact status of each relay can be changed separately and manually by control buttons on a front panel.
- Switching actuators SA3 is normally supplied in the option AgSnO<sub>2</sub> contact material.
- SA3-04M in 3-MODULE version is designed for mounting into a switchboard, on DIN rail EN60715.

## Connection



# Loadability of contacts



















## Minimum load

Relay contact	mV	V/mA
AgSnO <sub>2</sub>	1000	10/100



















## Minimum load

Relay contact	mV	V/mA
AgNi	300	5/10



















### GCR3-11, GCH3-31, GMR3-61, SA3-02B, SA3-06M, SA3-012M, WMR3-21

Type of load	 $\cos \varphi \geq 0.95$								
Contact material	AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	AC5b	AC6a	AC7b	AC12
AgSnO <sub>2</sub> contact 8A	250V / 8A	250V / 2.5A	250V / 1.5A	230V / 1.5A (345VA)	230V / 1.5A (345VA) till max output C=14uF	250W	250V / 4A	250V / 1A	250V / 1A
Type of load									
Contact material	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
AgSnO <sub>2</sub> contact 8A	x	250V / 3A	250V / 3A	24V / 8A	24V / 3A	24V / 2A	24V / 8A	24V / 1A	x



















### CU3-04M (RE7 - RE-10), LBC3-02M, SA3-01B, SA3-02M, SA3-04M, SA3-022M (RE7 - RE-10), EA3-022M (RE7 - RE-10), JA3-018M (U/D1 - U/D9)

Type of load	 $\cos \varphi \geq 0.95$								
Contact material	AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	AC5b	AC6a	AC7b	AC12
AgSnO <sub>2</sub> contact 16A	250V / 16A	250V / 5A	250V / 3A	230V / 3A (690VA)	230V / 3A (690VA) till max output C=14uF	1500W	x	250V / 3A	250V / 10A
Type of load									
Contact material	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
AgSnO <sub>2</sub> contact 16A	250 / 6A	250V / 6A	250V / 6A	24V / 16A	24V / 6A	24V / 4A	24V / 16A	24V / 2A	24V / 2A





### SA3-02B/Ni\*, SA3-06M/Ni\*, SA3-012M/Ni\*

Type of load	 $\cos \varphi \geq 0.95$								
Contact material	AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	AC5b	AC6a	AC7b	AC12
AgNi contact 8A	250V / 8A	250V / 2.5A	250V / 1.5A	230V / 1.5A (345VA)	x	400W	x	250V / 1.5A	250V / 5A
Type of load									
Contact material	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
AgNi contact 8A	250 / 3A	250V / 3A	250V / 3A	24V / 8A	24V / 3A	24V / 2A	24V / 8A	24V / 1A	24V / 1A

### SA3-01B/Ni\*, SA3-06M/Ni\*, SA3-04M/Ni\*

Type of load	 $\cos \varphi \geq 0.95$								
Contact material	AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	AC5b	AC6a	AC7b	AC12
AgNi contact 16A	250V / 16A	250V / 5A	250V / 3A	230V / 3A (690VA)	x	800W	x	250V / 3A	250V / 10A
Type of load									
Contact material	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
AgNi contact 16A	250 / 6A	250V / 6A	250V / 6A	24V / 16A	24V / 6A	24V / 4A	24V / 16A	24V / 2A	24V / 2A

### JA3-018M (U/D1 - U/D9), CU3-04M (RE1 - RE6, OUT1 - OUT2, RE11 - RE16), SA3-022M (RE1 - RE6, OUT1 - OUT2, RE11 - RE16, SHUTTER), EA3-022M (RE1 - RE6, OUT1 - OUT2, RE11 - RE16, SHUTTER), FA3-612M (FAN1 - FAN3, RE)

Type of load	 $\cos \varphi \geq 0.95$			
Contact material	AC1	AC3	AC15	DC1
AgNi contact 6A	250V / 6A	230V / 0.8A	230V / 1.3A	30V / 3A 110V / 0.2A 220V / 0.12A

Demonstrated symbols are informative.

\*Products with AgNi contact only up on request for extra charge.